

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number  
**WO 2005/097477 A1**

(51) International Patent Classification<sup>7</sup>: **B29C 67/24,**  
B29B 7/76

(21) International Application Number:  
PCT/IB2005/000886

(22) International Filing Date: 5 April 2005 (05.04.2005)

(25) Filing Language: Portuguese

(26) Publication Language: English

(30) Priority Data:  
103101 5 April 2004 (05.04.2004) PT

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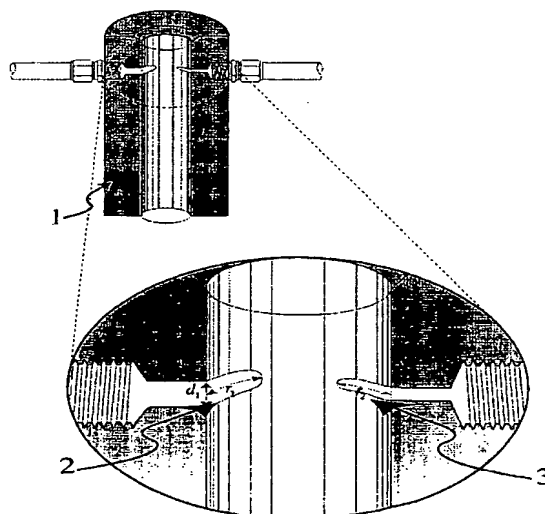
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: PRODUCTION PROCESS OF PLASTIC PARTS BY REACTION INJECTION MOULDING, AND RELATED HEAD DEVICE



(57) Abstract: The present invention relates to a process and device RIM involving a mixing chamber (1) with opposing injectors (2, 3). The efficiency is maximised through the operation in flow regimes with very strong mixing dynamics, which is assured by means of the introduction of schemes to: detect the flow regime within the mixing chamber, through the dynamic pressure measurement upstream of the injectors (2, 3), using means (5); and/or impose a chaotic flow regime, through the pulsation of the opposed jets, using means (6). Alterations in design, comparatively to the traditional geometries, are also proposed, concerning: the mixing chamber (1), being foreseen a prismatic rectangular chamber; the injectors (2, 3), being foreseen elongated injectors; and even the scheme of injection of the materials, using a third injector (4).

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**Published:**

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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